


**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 10, 2006

PTAS

\*500084292A\*

VICTORIA POULSEN DORSEY & WHITNEY LLP  
555 CALIFORNIA STREET  
SUITE 1000  
SAN FRANCISCO, CA 94104-1513

\*500084292A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/10/2006

REEL/FRAME: 017289/0697  
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: A-71933 469322-55

## ASSIGNOR:

CAWTHORN, RICHARD

DOC DATE: 03/08/2006

## ASSIGNEE:

UNIVERSITY OF UTAH  
615 ARAPEEN DRIVE  
SUITE 310  
SALT LAKE CITY, UTAH 94104

SERIAL NUMBER: 10543111

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS OF PREDICTING MORTALITY RISK BY DETERMINING TELOMERE LENGTH

017289/0697 PAGE 2

ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

Substitute Form PTO-1595	<b>RECORDATION FORM COVER SHEET PATENTS ONLY</b>	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof		
<b>1. Name of conveying party(ies):</b>  <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 5px 0;"><b>Richard Cawthorn</b></div> Execution Dates: March 8, 2006 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Name and address of receiving party(ies)</b>  Name: <b>University of Utah</b>  Address: <b>615 Arapleen Drive Salt Lake City 94104</b>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <span style="margin-left: 100px;"><input type="checkbox"/> Merger</span> <input type="checkbox"/> Security Agreement <span style="margin-left: 100px;"><input type="checkbox"/> Change of Name</span> <input type="checkbox"/> Other: _____		
<b>4. Application number(s) or patent number(s):</b> If this document is being filed together with a new application, the execution date of the application is:		
A. Patent Application No.(s)  <b>10/543,111</b>	B. Patent No.(s)	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Name: <b>Richard F. Trecartin, Esq.</b>  Address: <b>DORSEY &amp; WHITNEY LLP 555 California Street, 10<sup>th</sup> Floor San Francisco, CA 94104-1513</b>	<b>6. Total number of applications and patents involved: 1</b>  <b>7. Total fee (37 CFR 3.41).....\$ 40.00</b>  <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  <b>8. Deposit account number: 50-2319</b> Our Order No.: <b>469322-55 (Docket No. A-71933)</b>  <i><b>Please debit any underpayment or credit any overpayment to the above deposit account.</b></i>  (Attach duplicate copy of this page if paying by deposit account)	
<b>DO NOT USE THIS SPACE</b>		
<b>9. Statement and signature.</b>  <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <b>Richard F. Trecartin Reg.</b>  <b>No. 31,801</b> </div> <div style="text-align: center;">           Signature       </div> <div style="text-align: center;"> <b>March 10, 2006</b>          Date       </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>Name of Person Signing</div> <div>Total number of pages including cover sheet, attachments, and documents: 4</div> </div>		

Mail documents to be recorded with required cover sheet information to:  
 Director of the U.S. Patent & Trademark Office, Mail Stop Assignment Recordation Services  
 P.O. Box 1450, Alexandria, VA 22313-1450

## PATENT ASSIGNMENT

Electronic Version v1.1

03/10/2006

Stylesheet Version v1.1

500084292

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Richard Cawthorn	03/08/2006
RECEIVING PARTY DATA	
Name:	University of Utah
Street Address:	615 Arapsee Drive
Internal Address:	Suite 310
City:	Salt Lake City
State/Country:	UTAH
Postal Code:	94104
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	10543111
CORRESPONDENCE DATA	
Fax Number:	(415)398-3249
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	415-781-1989
Email:	poulsen.victoria@dorsey.com
Correspondent Name:	Victoria Poulsen DORSEY & WHITNEY LLP
Address Line 1:	555 California Street
Address Line 2:	Suite 1000
Address Line 4:	San Francisco, CALIFORNIA 94104-1513
ATTORNEY DOCKET NUMBER:	A-71933 469322-55
NAME OF SUBMITTER:	Richard F. Trecartin Reg. No. 31,801
Total Attachments: 4 source=71933#page1.tif source=71933#page2.tif	

CH \$40.00 10543111

source=71933#page3.tif

source=71933#page4.tif

**CORRECTIVE RECORDATION FORM COVER SHEET  
PATENTS ONLY**

Attorney Docket Number  
067629-5011-US  
(Formerly A-71933; 469322-  
00055)

Please record the attached original documents or copy thereof.

**Filed Electronically:**

1. Name of conveying party(ies):

**Richard Cawthon**

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☐ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☒ Other : Record to correct Assignor's name on Notice of Recordation of Assignment Document submitted **March 10, 2006**, said Assignment being previously recorded at Reel/Frame **017289/0697**

Execution Date: March 10, 2006

2. Name and address of receiving party(ies):

Name: **University of Utah**

Address: **615 Arapen Drive, Suite 310  
Salt Lake City, Utah 94104**

Country  
(if other than USA):

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) **10/543,111**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

**MORGAN, LEWIS & BOCKIUS LLP  
One Market, Spear Street Tower  
San Francisco, California 94105**

6. Number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....**Previously Paid**  
Please charge any deficiencies to the deposit account listed in Section 8.

8. Deposit account number:  
**50-0310 (Attorney Docket No. 067629-5011-US)**

**DO NOT USE THIS SPACE**

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

**Richard F. Trecartin**

**31,801**

**/Richard F. Trecartin/**

**July 2, 2007**

Name of Person Signing

Reg. No.

Signature

Date

Total Number of pages including covers sheet, attachments, and documents:

**11**

Mail Stop Assignment Recordation Services  
Director of the United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

## ASSIGNMENT

WHEREAS, the undersigned

Richard Cawthon, resident of Salt Lake City, state of Utah;

(hereinafter termed "Inventor(s)"), has invented certain new and useful improvements in

### *Methods of Predicting Mortality Risk by Determining Telomere Length*

for which an application for a United States Patent was filed having Application Number *10/543,111 based on International Application Number PCT/US04/02215 which was filed on January 26, 2004* and

WHEREAS,

The University of Utah, an educational institution of the State of Utah having a place of business at 615 Arapleen Drive, Salt Lake City, Utah (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said

invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.



4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed and delivered this instrument to said Assignee as of the dates below written adjacent to each of their respective signatures.

Signature of Inventor :

Richard Cawthon

Richard Cawthon

Date :

March 8, 2006

County of

Salt Lake

) ss.

State of

Utah

)

On this 8<sup>th</sup> day of March in the year 2006,  
before me Elaine A. Fry

\_\_\_\_\_, Notary Public of the State of Utah personally appeared Richard Cawthon personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature

Elaine A. Fry

(Seal)

